

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Named Inventor:	Noriaki Onodera et al.	
Appln. No.:	10/585,472	
Patent No.:	7,828,917	
Filed:	July 6, 2006	
Title:	RAIL MANUFACTURING METHOD	
Examiner:	Deborah Yee	
Group Art:	1793	
Confirmation No.:	5909	

**REQUEST FOR CERTIFICATE OF CORRECTION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants respectfully request that a Certificate of Correction be issued due to an error relating to the Foreign Application Priority Data. The priority application and application date is missing. As stated on the Official Filing Receipt the application claims priority to PCT/JP2005/000427 filed on 01/07/2005 which claims priority to JP2004-004358 filed 01/09/2004. The Foreign Application Priority Data section should read as follows:


“Jan. 9, 2004 (JP) .....2004-004358”

Enclosed herewith, is a marked-up copy of the front page of the issued patent showing the error in red, along with a Certificate of Correction. Please forward a Certificate of Correction including the Foreign Application Priority Data section.

The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, associated with this filing to Deposit Account No. 50-2054.

Respectfully submitted,

Date: September 7, 2011

By:   
\_\_\_\_\_  
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US007828917B2

(12) **United States Patent**  
**Onodera et al.**

(10) **Patent No.:** **US 7,828,917 B2**  
(45) **Date of Patent:** **Nov. 9, 2010**

(54) **RAIL MANUFACTURING METHOD**

(56)

**References Cited**

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**U.S. PATENT DOCUMENTS**

1,456,944 A \* 5/1923 Stenbol ..... 148/585  
3,276,924 A 10/1966 Okamoto et al.  
6,224,694 B1 5/2001 Prskawetz et al.  
6,432,230 B1 \* 8/2002 Kock et al. .... 148/646

**FOREIGN PATENT DOCUMENTS**

JP 55002768 \* 1/1980  
JP 59031824 \* 2/1984  
JP 60251221 \* 12/1985  
JP 62013528 \* 1/1987  
JP 63-114923 \* 5/1988  
JP 03-166318 7/1991  
JP 05076921 \* 3/1993  
JP 08295938 \* 11/1996

(Continued)

**OTHER PUBLICATIONS**

Human—English translation of Japanese patent 59-031824, Gishi Takao et al., Feb. 21, 1984.\*

Notice of Allowance issued Dec. 28, 2007, for corresponding Russian Patent Application No. 2006125717 and English—language translation thereof.

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 494 days.

(21) Appl. No.: **10/585,472**

(22) PCT Filed: **Jan. 7, 2005**

(86) PCT No.: **PCT/JP2005/000427**

§ 371 (c)(1),  
(2), (4) Date: **Jul. 6, 2006**

(87) PCT Pub. No.: **WO2005/066377**

PCT Pub. Date: **Jul. 21, 2005**

(65) **Prior Publication Data**

US 2009/0014099 A1 Jan. 15, 2009

(51) Int. Cl.  
**C21D 9/04** (2006.01)  
**C21D 9/06** (2006.01)

(52) U.S. Cl. .... **148/584; 148/580; 148/585;**  
**148/645; 148/646**

(58) **Field of Classification Search** .... **148/581,**  
**148/646, 584, 585, 580, 645**

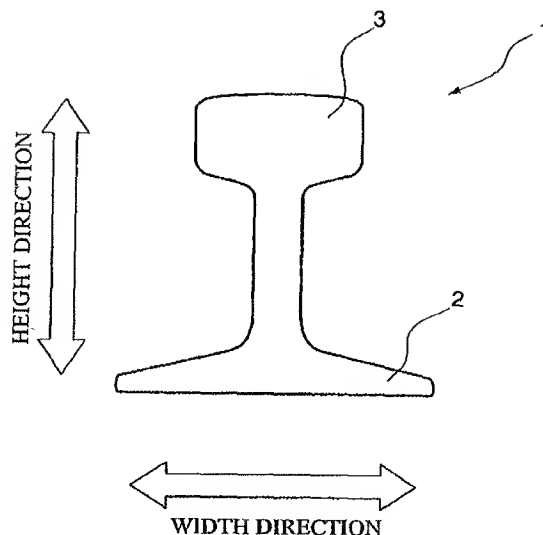
See application file for complete search history.

(57)

**ABSTRACT**

A rail manufacturing method is provided, in which a billet is hot-rolled into a rail form and the rail is cooled to ambient temperature. The foot part of the rail can be mechanically restrained to improve the straightness of the rail during at least the period of cooling where the surface temperature is between 800° C. and 400° C. In the subsequent cooling process, at least while the surface temperature of the foot of the rail is between 400° C. and 250° C., the rail is kept in an upright state, and cooled naturally without using insulation or accelerated cooling.

**9 Claims, 1 Drawing Sheet**



(30) Foreign Application  
Priority Data  
Jan. 9, 2004 (JP) ....  
2004-604358

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,828,917

APPLICATION NO.: 10/585,472

ISSUE DATE : November 9, 2010

INVENTOR(S) : Noriaki Onodera et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The "Foreign Application Priority Data" section is missing and should read as follows:

"Jan. 9, 2004 (JP) .....2004-004358"

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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